



Birchcliff Parkway Traffic Calming Alternatives Presentation

September 15th, 2020

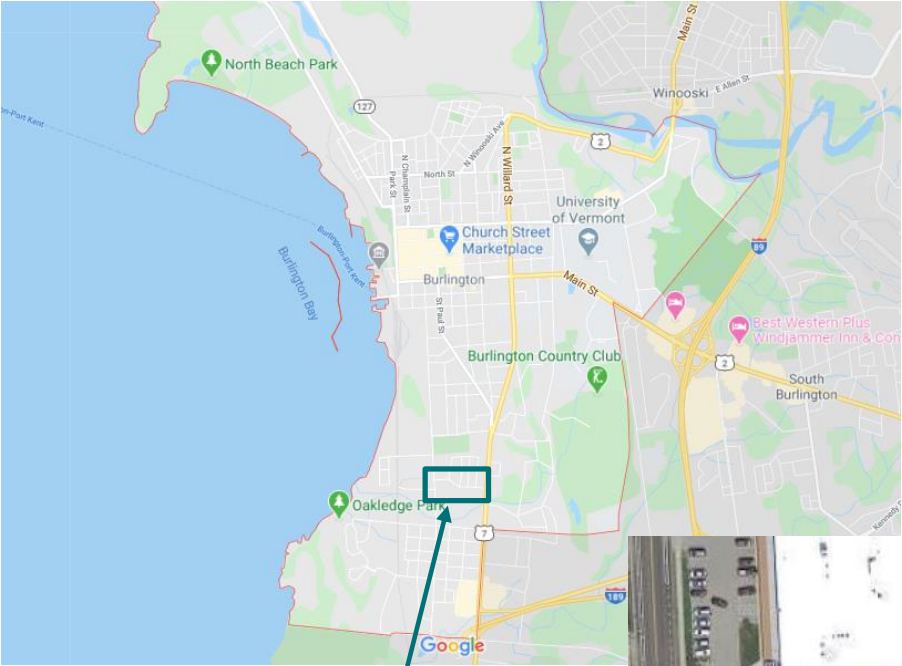


Meeting Agenda

- Project Background
 - Project Area
 - August 2017 Public Meeting
 - Cherry Lane Improvements
- Project Goals
- What is Traffic Calming?
 - Traffic Calming Tools
- Presentation of Alternatives



Project Background: Project Area



Project Background: August 2017 Public Meeting

Public Feedback from Meeting:

- Traffic calming measures would reduce cut-through truck traffic
- Traffic calming measures would likely reduce vehicular traffic
- Traffic calming would reduce speeds
- Concern over car noise from speed tables
- Concerns over a reduction in street width
 - Challenging for snow plows
 - Concern about abrupt vehicle shifts
- Potential reduction in available on-street parking



Project Background: Cherry Lane Improvements

- An outcome of the August 2017 public meeting was recommended improvements at Cherry Lane
- A speed table was installed at Birchcliff Parkway and Cherry Lane in 2019
- Project was reconstructed in July 2020



Birchcliff Parkway Project Goals

- What are your primary Project Goals?
 - Reduce cut-through traffic
 - Includes need to reduce truck cut-through traffic
 - Reduce speeding
- Secondary Goals
 - Improve pedestrian safety and access along the project corridor
 - PlanBTV Walk Bike Neighborhood Greenway



What does the Traffic Data tell us?

- There is significant cut-through traffic
 - 106 houses in the neighborhood vs. average of 910 westbound trips per day
- 85th Percentile Speed is 31mph
- Concern regarding truck traffic

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Chittenden County Regional Planning Commission
110 West Canal Street, Ste 202
Winooski, VT 05404

Site Code: BURL133
Station ID: BURL133
BIRCHCLIFF PKWY BTWN BITTERSWEET & ALDER
SPEED LIMIT: 25MPH
Latitude: 0' 0.0000 Undefined

WB	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Pace	Number
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	in Pace
05/18/17	1	2	14	33	13	2	0	0	0	0	0	0	0	0	65	21-30
01:00	2	4	17	31	6	2	0	0	0	0	0	0	0	0	62	21-30
02:00	1	4	19	33	8	1	0	0	0	0	0	0	0	0	66	21-30
03:00	0	2	13	23	8	2	0	0	0	0	0	0	0	0	48	21-30
04:00	0	4	8	22	10	1	0	0	0	0	0	0	0	0	45	25-34
05:00	5	6	32	57	23	1	0	0	0	0	1	0	0	0	125	21-30
06:00	2	5	10	12	2	1	0	0	0	0	0	0	0	0	32	21-30
07:00	5	6	14	8	3	0	0	0	0	0	0	0	0	0	36	21-30
08:00	0	1	5	6	0	0	0	0	0	0	0	0	0	0	12	21-30
09:00	0	1	5	0	5	0	0	0	0	0	0	0	0	0	11	16-25
10:00	0	0	3	4	0	0	0	0	0	0	0	0	0	0	7	21-30
11:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	9-18
12 PM	0	1	0	0	2	1	0	0	0	0	0	0	0	0	4	29-38
13:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	14-23
14:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	19-28
15:00	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2	9-18
16:00	0	0	2	4	1	0	0	0	0	0	0	0	0	0	7	21-30
17:00	0	2	5	18	14	3	1	0	0	0	0	0	0	0	43	26-35
18:00	3	3	8	26	18	4	2	0	0	0	0	0	0	0	64	26-35
19:00	5	10	39	97	26	1	0	0	0	0	0	0	0	0	178	21-30
20:00	0	4	29	62	28	2	0	0	0	0	0	0	0	0	125	21-30
21:00	4	1	10	34	10	2	0	0	0	0	0	0	0	0	61	21-30
22:00	3	8	13	24	12	1	0	0	0	0	0	0	0	0	61	21-30
23:00	2	5	18	19	5	0	0	0	0	0	0	0	0	0	39	21-30
Total	33	71	265	515	194	24	3	0	0	0	1	0	0	0	1106	
Percent	3.0%	6.4%	24.0%	46.6%	17.5%	2.2%	0.3%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%		
AM Peak	05:00	05:00	05:00	05:00	05:00	00:00					05:00				05:00	
Vol.	5	6	32	57	23	2					1				125	
PM Peak	19:00	19:00	19:00	19:00	20:00	18:00	18:00								19:00	
Vol.	5	10	39	97	28	4	2								178	
Total	245	452	1857	3220	1310	154	8	1	0	0	2	0	0	2	7251	
Percent	3.4%	6.2%	25.6%	44.4%	18.1%	2.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
15th Percentile :					21 MPH											
50th Percentile :					28 MPH											
85th Percentile :					31 MPH											
95th Percentile :					34 MPH											
Stats																
10 MPH Pace Speed :					21-30 MPH											
Number in Pace :					5077											
Percent in Pace :					70.0%											
Number of Vehicles > 55 MPH :					4											
Percent of Vehicles > 55 MPH :					0.1%											
Mean Speed(Average) :					27 MPH											



What is Traffic Calming?

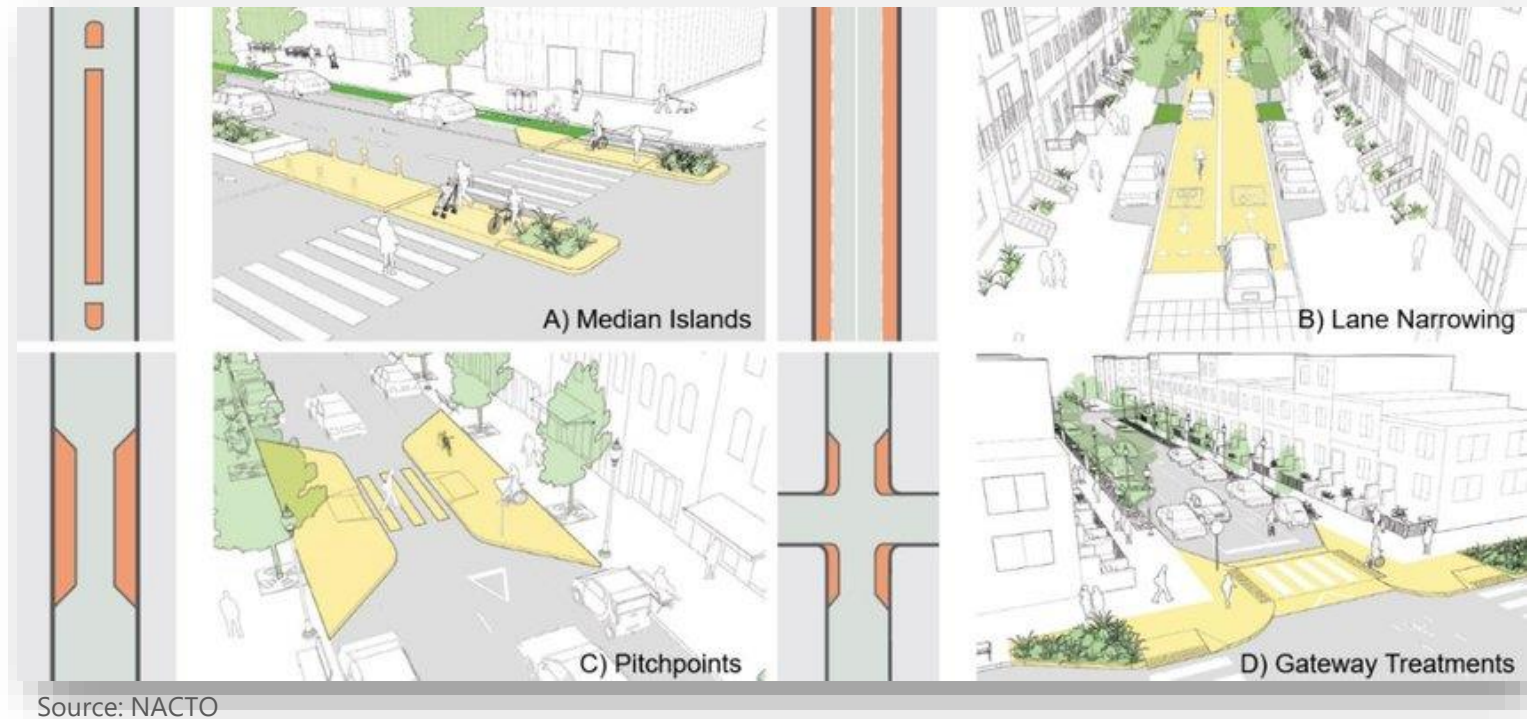
- Traffic Calming is the use of physical design elements to improve safety for motorists, pedestrians and bicyclists
- Objectives of Traffic Calming:
 - Reduce cut-through motor vehicle traffic
 - Enhance street environment and quality of life
 - Slow vehicles
 - Reduce frequency and severity of collisions
 - Reduce need for police enforcement



Neckdown and sign on the corner of Peru Street in Burlington

Traffic Calming Tools

- Speed Tables
- Raised Crosswalks
- Lane Narrowing
- Median Islands
- Parking
- Streetscaping
- Combination Solutions



Traffic Calming Options for Birchcliff Parkway

- Need to Slow Speeds
 - Speed Tables (All Alternatives)
 - Lane Narrowing (All Alternatives)
- Need to Reduce Cut-Through Traffic
 - Gateway Treatment at Shelburne Street (Alternatives 2 & 3)
- Need for More/Safer Pedestrian Crossings
 - Speed Tables with Crosswalks (All Alternatives)
 - Lane Narrowing to Shorten Crossings (All Alternatives)



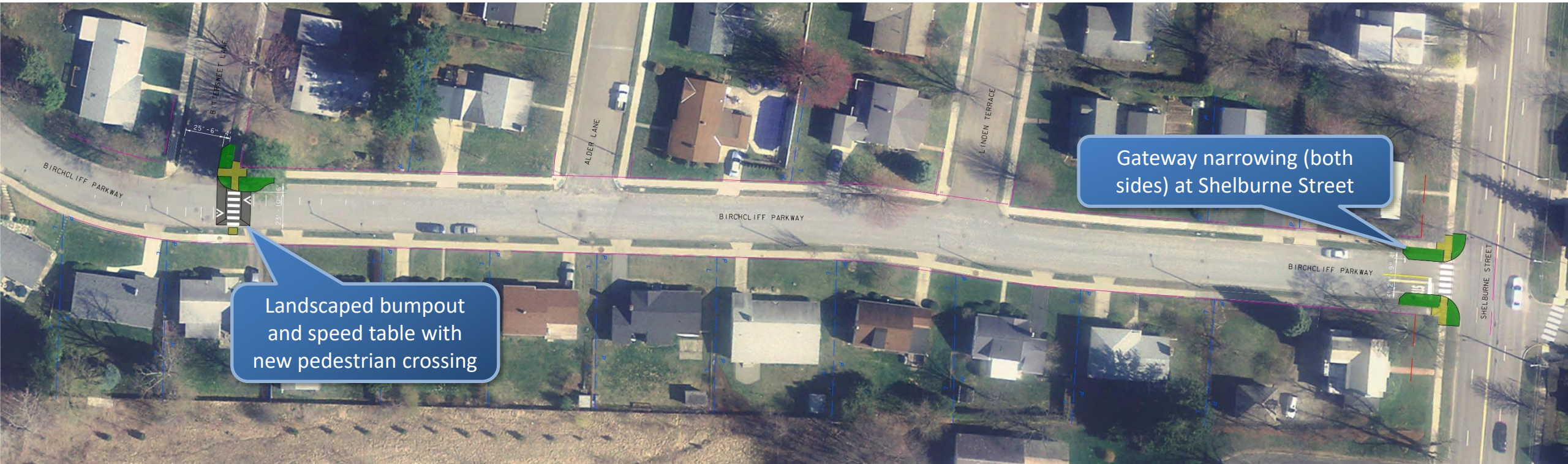
Alternative 1: Enhanced Pedestrian Crossings at Bittersweet Lane and Linden Terrace



Alternative 2: Enhanced Pedestrian Crossing at Alder Lane and One Side Street Narrowing at Shelburne Street



Alternative 3: Enhanced Pedestrian Crossing at Bittersweet Lane and Street Narrowing at Shelburne Street



Next Steps...



Identify Preferred Alternative



Move Preferred Alternative forward to Preliminary Engineering Design



Present Preliminary Engineering Design to Community



Complete Final Engineering Design



Repave Roadway and Install Improvements (Spring 2021)



We Want to Hear From You...

1. Would you prefer to see traffic calming at a particular location along Birchcliff Parkway?
2. Would you prefer to see safe pedestrian accommodations at a particular intersection?
3. Would you like to see a gateway treatment proposed at Shelburne Street?
4. Did we miss anything? Do you have any concerns that you do not feel have been addressed?



Please Share Your Thoughts with Us



Nicole Losch
Senior Transportation Planner

Department of Public Works
645 Pine Street
Burlington, VT 05401

802-391-6809
dpwplanning@burlingtonvt.gov



Jennifer Conley, PE, PTOE
Project Manager
802.497.6191
jconley@vhb.com

Drew Gingras, PE
Project Engineer
802.391.5569
dgingras@vhb.com